



KALPAVRUKSHA MODEL SCHOOL

Online Class Assignments-8

Class: VIII

Sub: Physics

Date: 2.07.2021

Topic: STARS AND SOLAR SYSTEM

I. Answer the following questions:

1. When does the comet become visible to us?

ANS: The period of revolution of comets around the Sun is usually very long. Comets are visible to us in the sky like a bright ball of light with a long glowing tail when they come near to Sun.

2. What is a satellite?

ANS: "satellite" refers to a machine that is launched into space and moves around Earth or another body in space. Earth and the moon are examples of natural satellites.

3. Name the natural satellite of the Earth.

ANS: Moon is the natural satellite of the Earth.

4. Write a short note on the Moon.

ANS: The Moon is Earth's only natural satellite. At about one-quarter the diameter of Earth (comparable to the width of Australia), it is the largest natural satellite in the Solar System relative to the size of its planet, the fifth largest satellite in the Solar System overall, and is larger than any known dwarf planet. The moon is the Earth's only natural satellite. As the Earth moves round the sun, so the moon in turn revolves around the Earth. As it orbits the Earth, the moon also turns on its axis. The time taken to complete one rotation is the same as that taken for one orbit- about 29 $\frac{1}{4}$ days. So the same side of the moon always faces the Earth.

5. Define phases of the Moon.

ANS: The phases of the Moon are the different ways the Moon looks from Earth over about a month. As the Moon orbits around the Earth, the half of the Moon that faces the Sun will be lit up. The different shapes of the lit portion of the Moon that can be seen from Earth are known as phases of the Moon.

6. A meteor makes a streak of light, when it falls on Earth. Do you think it would look the same when falling on the moon?

ANS: No, because the Moon has no atmosphere and sound cannot travel when there is no medium and it won't burn or the sound can't be heard.

7. Why do we see phases of the moon and not the sun?

ANS: We see phases of the moon and not the sun because the sun is a luminous body and it emits light from all the angles whereas the Moon is a non-luminous body which does not emit light, it reflects the light of the sun.

8. This famous comet, named after an English astronomer, was last seen in 1986 and is now expected to appear in mid-2062. Which comet are we talking about?

ANS: This famous comet, named after an English astronomer, was last seen in 1986 and is now expected to appear in mid-2062, we are talking about Halley's Comet

10. What is the difference between a full Moon and a new Moon?

ANS:

New moon	Full moon
When sun and moon are on the same side of earth, a new moon appears.	When sun and moon are on the opposite side of the earth, a full moon appears.
A new moon is when no part of moon is visible from the Earth.	A full moon is when the whole moon is visible